AMENDMENTS TO THE CLAIMS

Please amend the claims of the present application without prejudice or disclaimer as set forth below:

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1-17. (canceled)

18. (previously presented) A system comprising:

an integrated management agent capable of managing components

of a storage area network (SAN), the integrated management agent

comprising a device agent;

the device agent comprising an object-based device handler sublayer and a protocol-dependent device handler sublayer, the protocol-dependent device handler sublayer comprising multiple modules, each respective module of the multiple modules adapted to support a respective device-type-specific protocol; and

wherein a particular module of the multiple modules that is adapted to support a particular device-type-specific protocol may be installed to or uninstalled from the protocol-dependent device handler sublayer independently of other modules of the multiple modules while the integrated management agent is running.

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- 19. (previously presented) The system of Claim 18, wherein the integrated management agent further comprises an object manager that represents the components of the SAN as objects, and wherein the object-based device handler sublayer provides an interface between the object manager and the protocol-dependent device handler sublayer to permit an object level interface to the devices.
- 20. (previously presented) The system of Claim 18, wherein the integrated management agent further comprises a dynamic list of device-type-specific protocols that it is capable of using, wherein each device-type-specific protocol is associated with a list of objects and methods, and wherein a given list of objects and methods is added to the dynamic list when a given module of the multiple modules supporting a given device-type-specific protocol is installed to the protocol-dependent device handler sublayer.
- 21. (new) The system of Claim 19, wherein the integrated management agent further comprises a consistent user interface module coupled to the object manager, wherein at least one device type-specific module is installed, and wherein the at least one device type-specific module further comprises a device handler for coupling a storage system to the integrated management agent.

- 22. (new) The system of claim 21, wherein at least one device typespecific module further comprises code for supporting a plurality of protocols to communicate with a plurality of devices.
- 5 23. (new) The system of claim 22, wherein the management system further comprises a distributed error and status handler capable of handling error and status information from at least one device.
- 24. (new) The system of Claim 23, wherein at least a first level of thedistributed error and status handler executes on the at least one device.
 - 25. (new) The system of Claim 24, wherein the at least one machine selected from the group comprising a host and an appliance incorporates a second level of error and status handler.

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- 26. (new) The system of Claim 24, wherein the distributed error and status handler further comprises a centralized global error and status handler level.
- 20 27. (new) The system of Claim 25, wherein the centralized global error and status handler level executes upon a fault tolerant system in a storage are network management environment.

28. (new) The system of Claim 18, wherein the integrated management agent further comprises a trap handler coupled to a notification module to receive traps from at least one SAN device and send notification to at least one system administrator.

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- 29. (new) The system of Claim 28, wherein the integrated management agent is further capable of sending traps to support at least a second management system.
- 10 30. (new) The system of Claim 18, wherein the integrated management agent is capable of being configured with a configuration utility.
 - 31. (new) The system of Claim 18, wherein the object manager further comprises a dynamic list indicating device types the integrated management agent is capable of handling, wherein installing device type-specific modules causes addition of device types to the dynamic list, and wherein addition of device types to the dynamic list does not require shutting down the integrated management agent.
- 32. (new) The system of Claim 31, wherein the network interconnection system further comprises at least one fibre channel switch, and wherein a device type-specific module is type specific to the at least one fibre channel switch.

33. (new) The system of Claim 18, wherein the integrated management system further comprises a firmware download module with unified user interface hiding device specific firmware download process and characteristics from the administrator.

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- 34. (new) The system of Claim 18, wherein the integrated management agent is capable of discovering devices and agents in the SAN and their interconnection by applying a conglomerate method comprising at least two elements selected from the group comprising host and device agent broadcasting, multicasting device identity, collecting addresses from network traffic, collecting information from a name server, scanning a set of ranges of address supplied in configuration information, and collecting information about devices from configuration information.
- 35. (new) The system of Claim 18, wherein the integrated management agent is further capable of discovering devices and agents in the SAN and their interconnection by applying a conglomerate method comprising at least three elements selected from the group comprising host and device agent broadcasting, multicasting device identity, collecting
 addresses from network traffic, collecting information from a name server, scanning a set of ranges of address supplied in configuration information, and collecting information about devices from configuration information.

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